7018 Catalog Number [redacted]
Program No. RSL-M-0020

IDENTIFICATION: MODIFIED DIGITAL RECORDER (DR-1) CONTROL ROUTINE

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PURPOSE: To plot information at a much higher speed than 0123 and to correct some errors in the standard plotter program (0123).

STORAGE: All sectors of one long line plus all fast line sectors.

ENTRY: The entry depends on the mode of plotting desired.

004XX	Pen Up - Symbol
237XX	Pen Down-Symbol
013XX	Pen Down
020XX	Pen Up

XX-is the line number of the plotter routine.

USE: The calling sequence is as follows:

1. Set index register with line location of subroutine.
2. Store return command in sector 003 of line 00.
3. Load A with Y.
4. Load B with X.
5. TRU to entry point.

To set X at zero point, store 0 in sector 012 of line 00.
To set Y at zero point, store 0 in sector 010 of line 00.

METHOD: The plotter is started and the pen is located according to entry, with the marker switch being set if necessary. The ΔX and ΔY are determined and two appropriate WOC commands (one for $\pm X$ or $\pm Y$ and the other $\pm X \pm Y$) are set depending on the signe of ΔX and ΔY. If either one of the delta's are zero, the predetermined WOC for $\pm X$ or $\pm Y$ is selected and executed. This process is repeated until the delta distance is covered. If neither of the delta's are zero, the predetermined WOC for $\pm X \pm Y$ (slope) is selected and executed. This process is repeated until both delta distances are covered.

METHOD CONTINUED:

If there is to be no mark, the plotter is stopped and control exits. If the point is to be marked, a series of ΔX and ΔY values are used to move the pen in a marking pattern using the basic plotter output procedure.